

Work Order ID 58452

May 7, 2010 10:08:51 AM



Page 1

Item ID: D412-702-301

Accept



Setup Start



Revision ID:

Item Name: Harness Assembly

Stop



Start Date: 07/05/2010 Start Qty: 3.00



Cust Item ID:

Required Date: 14/05/2010 Req'd Qty: 3.00



Customer:

Reference:

Approvals: Process Plan: *PL*Date: *10-5-07*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Draw Number | Draw Rev. | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|----------------|--------------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|--------------|--------------|
| DSI 9511 | A |
| ICA-D412-702 | Rev3 |

100 0.00



Small Fab

Memo

0.00

Small Fab Assemble as per dwg ICA D412-702 p.49

J. S. 10-5-07 (3)

110 QC5- Inspect part completeness to step on W/O 0.00



QC

Memo

0.00

S. 10-5-07

(X3)

Quality Control

Work Order ID 58452

May 7, 2010 10:08:51 AM



Page 2

Item ID: D412-702-301

Accept



Setup Start



Revision ID:

Item Name: Harness Assembly

Stop



Start Date: 07/05/2010 Start Qty: 3.00



Cust Item ID:

Required Date: 14/05/2010 Req'd Qty: 3.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120



Packaging

Memo

0.00

10-5-17 3x sf

Packaging

Identify with P/N & CHG# and pack for shipping as per PPP D412-702-301

CHG001

Location:

PPP Rev: 369

130



QC21- Final Inspection - Work Order Release

0.00

10/05/17 sf

Memo

0.00

QC

Quality Control

W Wav3.17

Picklist Print

May 7, 2010 10:08:56 AM

M100151

Page 1
12

Work Order ID: 58452



Parent Item: D412-702-301



Parent Item Name: Harness Assembly

Start Date: 07/05/2010

Required Date: 14/05/2010

Comments: IPP Rev:A new issue DD 10.04.30 verified:EC

Start Qty: 3.00

Required Qty: 3.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|---------------|----------------|--------|

D3573-7



Adapter

Manufactured

No

100

Each

20.0000



EBS10/05/17

Location

ST244

Loc Qty

20

Loc Code

31864

50470

57224

10

9

1

D4088-041



Shoulder Harness

Manufactured

No

100

Each

0.0000



EBS10/05/17

B58232



MS24693-S272



Screw

Purchased

No

100

Each

257.0000



EBS10/05/17

Location

ST288

Loc Qty

257

111548

112492

1

256

AN960JD10LL



Purchased

No

100

Each

4,479.000



EBS10/05/17

Washer

Location

ST349

Loc Qty

4479

19085

19600

472

4007

Loc Code

12

12

Picklist Print

May 7, 2010 10:08:56 AM

Page 2

Work Order ID: 58452



Parent Item: D412-702-301



Parent Item Name: Harness Assembly

Start Date: 07/05/2010

Required Date: 14/05/2010

Comments: IPP Rev:A new issue DD 10.04.30 verified:EC

Start Qty: 3.00

Required Qty: 3.00

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|---------------|----------------|--------|
| MS21042L3 | | Purchased | No | | | 100 | Each | 1,673.000 | 4 | | | |

Nut



| Location | Loc Qty | Loc Code |
|----------|---------|----------|
| ST300 | 1673 | |
| 113537 | 20 | |
| 113644 | 653 | |
| 114523 | 1000 | |



FS/05/17

b2

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3
REF TCCA STC SH04-7
REF FAA STC SR01997NY
REF EASA STC EASA.I.M.R.S.00710

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WORK ORDER
NO. 58452
BS 10-507

This service instruction adds several kits equipped with improved inertia reels:

The Dart D412-702-341 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-343 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-345 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-347 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-349 1-Man Shoulder Harness Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart D412-702-351 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/-052B kits, as detailed in Table 1 of this service instruction.

The Dart D214-702-337 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart D205-702-353 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

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| CERT. NO.: | SH04-7 |
| ISSUE NO.: | 3 |

| A | NEW ISSUE | | CP | 10.03.18 |
|------------|-------------|--|--|----------|
| REV. | DESCRIPTION | | BY | DATE |
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| DRAWN | <i>99</i> | | | |
| CHECKED | <i>1</i> | DRAWING NO. | REV. A | |
| MFG. APPR. | N/A | DSI 9511 | SHEET 1 OF 6 | |
| APPROVED | <i>100</i> | TITLE | SCALE | |
| DE APPR. | <i>100</i> | NEW SHOULDER HARNESS KITS | NTS | |
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INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

| Part Number | Description | Install similar to: |
|--------------|----------------------|--|
| D412-702-341 | Shoulder Harness Kit | D412-702-041B (IIN-D412-702, DSI 9408) |
| D412-702-343 | Shoulder Harness Kit | D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408) |
| D412-702-345 | Shoulder Harness Kit | D412-702-045B (IIN-D412-702, DSI 9469) |
| D412-702-347 | Shoulder Harness Kit | D412-702-047B (IIN-D412-702, DSI 9408) |
| D412-702-349 | Shoulder Harness Kit | D412-702-049B (IIN-D412-702, DSI 9408) |
| D412-702-351 | Shoulder Harness Kit | D412-702-051B (LH) (DSI 9397, DSI 9408) D412-702-052B (RH) (DSI 9397, DSI 9408) |
| D214-702-337 | Shoulder Harness Kit | D214-702-037B (DSI 9454) |
| D205-702-353 | Shoulder Harness Kit | D205-702-053B (DSI 9460) |
| D412-702-301 | Harness Assembly | D412-702-101B (IIN-D412-702) |
| D412-702-303 | Harness Assembly | D412-702-103B (IIN-D412-702) |
| D412-702-305 | Harness Assembly | D412-702-105B (IIN-D412-702) |
| D412-702-307 | Harness Assembly | D412-702-107B (IIN-D412-702) |
| D412-702-309 | Harness Assembly | D412-702-109B (IIN-D412-702) |
| D412-702-311 | Harness Assembly | D412-702-111B (IIN-D412-702) |
| D412-702-313 | Harness Assembly | D412-702-113B (IIN-D412-702) |
| D412-702-315 | Harness Assembly | D412-702-115B (IIN-D412-702) |
| D412-702-317 | Harness Assembly | D412-702-117B (IIN-D412-702) |
| D412-702-319 | Harness Assembly | D412-702-119B (DSI 9454) |
| D412-702-321 | Harness Assembly | D412-702-121B (DSI 9454, DSI 9469) |
| D412-702-323 | Harness Assembly | D412-702-123B (DSI 9454, DSI 9469) |

WLO 55H52

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| MFG. APPR. | N/A | DSI 9511 | SHEET 2 OF 6 |
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PARTS LIST

TABLE 2

| QTY -341 | QTY -343 | QTY -345 | QTY -347 | QTY -349 | QTY -351 | Part Number | Description |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| X | | | | | | D412-702-341 | Dart 13-Man 3-Point Shoulder Harness Kit |
| | X | | | | | D412-702-343 | Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit |
| | | X | | | | D412-702-345 | Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit |
| | | | X | | | D412-702-347 | Dart 4-Man 3-Point Side Facing Shoulder Harness Kit |
| | | | | X | | D412-702-349 | Dart 1-Man 3-Point Forward Shoulder Harness Kit |
| | | | | | X | D412-702-351 | Dart 1-Man 3-Point Shoulder Harness Kit |
| 1 | 1 | | | 1 | 1 | D412-702-059 | GROMMET KIT |
| 9 | 5 | | | 4 | 1 | D3761-1-041 | HOOK AND LOOP STRIP (DSI 9408) |
| 2 | 1 | | | 1 | | D412-702-301 | HARNESS ASSEMBLY (NEW) |
| 1* | 1* | | | 1* | | D3573-7 | ADAPTER |
| 1* | 1* | | | 1* | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | 4* | | | 4* | | MS24693S272 | SCREW |
| 4* | 4* | | | 4* | | AN960JD10LL | WASHER |
| 4* | 4* | | | 4* | | MS21042L3 | NUT |
| 2 | 1 | | | 1 | | D412-702-303 | HARNESS ASSEMBLY (NEW) |
| 1* | 1* | | | 1* | | D3573-8 | ADAPTER |
| 1* | 1* | | | 1* | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | 4* | | | 4* | | MS24693S272 | SCREW |
| 4* | 4* | | | 4* | | AN960JD10LL | WASHER |
| 4* | 4* | | | 4* | | MS21042L3 | NUT |
| 1 | 1 | | | 1 | | D412-702-305 | HARNESS ASSEMBLY (NEW) |
| 1* | 1* | | | 1* | | D3573-1 | ADAPTER |
| 1* | 1* | | | 1* | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | 4* | | | 4* | | MS24693S273 | SCREW |
| 4* | 4* | | | 4* | | AN960JD10LL | WASHER |
| 4* | 4* | | | 4* | | MS21042L3 | NUT |
| 1 | 1 | | | 1 | | D412-702-307 | HARNESS ASSEMBLY (NEW) |
| 1* | 1* | | | 1* | | D3573-3 | ADAPTER |
| 1* | 1* | | | 1* | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | 4* | | | 4* | | MS24693S272 | SCREW |
| 4* | 4* | | | 4* | | AN960JD10LL | WASHER |
| 4* | 4* | | | 4* | | MS21042L3 | NUT |
| 1 | 1 | | | | | D412-702-309 | HARNESS ASSEMBLY (NEW) |
| 1* | 1* | | | | | D3573-3 | ADAPTER |
| 1* | 1* | | | | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | 4* | | | | | MS24693S272 | SCREW |
| 4* | 4* | | | | | AN960JD10LL | WASHER |
| 4* | 4* | | | | | MS21042L3 | NUT |

* denotes that part is included in assembly above

continued next page...

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| MFG. APPR. | N/A | |
| APPROVED | <i>10</i> | REV. A SCALE NTS |
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...continued from previous page

| QTY -341 | QTY -343 | QTY -345 | QTY -347 | QTY -349 | QTY -351 | Part Number | Description |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------|
| 1 | | 1 | | | | D412-702-311 | HARNESS ASSEMBLY (NEW) |
| 1* | | 1* | | | | D3570-1 | BRACKET |
| 1* | | 1* | | | | D4088-043 | SHOULDER HARNESS (NEW) |
| 4* | | 4* | | | | MS24694S50 | SCREW |
| 4* | | 4* | | | | AN960JD10L | WASHER |
| 4* | | 4* | | | | MS21042L3 | NUT |
| 1 | | 1 | | | | D412-702-313 | HARNESS ASSEMBLY (NEW) |
| 1* | | 1* | | | | D3570-2 | BRACKET |
| 1* | | 1* | | | | D4088-043 | SHOULDER HARNESS (NEW) |
| 4* | | 4* | | | | MS24694S50 | SCREW |
| 4* | | 4* | | | | AN960JD10L | WASHER |
| 4* | | 4* | | | | MS21042L3 | NUT |
| 1 | | 1 | | | | D412-702-315 | HARNESS ASSEMBLY (NEW) |
| 1* | | 1* | | | | D3573-5 | ADAPTER |
| 1* | | 1* | | | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | | 4* | | | | MS24693S272 | SCREW |
| 4* | | 4* | | | | AN960JD10LL | WASHER |
| 4* | | 4* | | | | MS21042L3 | NUT |
| 1 | | 1 | | | | D412-702-317 | HARNESS ASSEMBLY (NEW) |
| 1* | | 1* | | | | D3573-5 | ADAPTER |
| 1* | | 1* | | | | D4088-041 | SHOULDER HARNESS (NEW) |
| 4* | | 4* | | | | MS24693S272 | SCREW |
| 4* | | 4* | | | | AN960JD10LL | WASHER |
| 4* | | 4* | | | | MS21042L3 | NUT |
| 1 | | 1 | | | | D412-702-321 | HARNESS ASSEMBLY (NEW) |
| 1* | | 1* | | | | D3570-3 | BRACKET |
| 1* | | 1* | | | | D4088-043 | SHOULDER HARNESS (NEW) |
| 4* | | 4* | | | | MS24694S50 | BOLT |
| 4* | | 4* | | | | AN960JD10L | WASHER |
| 4* | | 4* | | | | MS21042L3 | NUT |
| 1 | | 1 | | | | D412-702-323 | HARNESS ASSEMBLY (NEW) |
| 1* | | 1* | | | | D3570-4 | BRACKET |
| 1* | | 1* | | | | D4088-043 | SHOULDER HARNESS (NEW) |
| 4* | | 4* | | | | MS24694S50 | BOLT |
| 4* | | 4* | | | | AN960JD10L | WASHER |
| 4* | | 4* | | | | MS21042L3 | NUT |

* denotes that part is included in assembly above

continued next page...

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...continued from previous page

| QTY -341 | QTY -343 | QTY -345 | QTY -347 | QTY -349 | QTY -351 | Part Number | Description |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| 2 | 2 | | | | | D3542-1 | BRACKET |
| 7 | 3 | | 4 | 1 | | D3571-1 | GUIDE |
| 2 | 2 | | | | | D3571-3 | GUIDE |
| 2 | | 2 | | | | D3572-041 | GUIDE ASSEMBLY |
| 12 | 6 | | 6 | 2 | | D3578-041 | DOUBLER |
| 2 | 2 | | | | | D3610-041 | BRACKET |
| 2 | 2 | | | | | D3618-1 | CAP |
| 4 | 4 | | | | | AN4-10A | BOLT |
| 2 | | 2 | | | | AN4-16A | BOLT |
| 4 | | 4 | | | | AN4-25A | BOLT |
| 4 | | 4 | | | | AN4-27A | BOLT (DSI 9469) |
| 2 | 2 | | | | | AN4-44A | BOLT |
| 2 | 2 | | | | | MS24693S274 | SCREW |
| 3 | 3 | | | 1 | | MS24694S56 | SCREW |
| 10 | 2 | | 8 | | | MS24694S58 | SCREW |
| 1 | 1 | | | 1 | | MS24694S60 | SCREW |
| 26 | 6 | 20 | | | | AN960JD416 | WASHER |
| 4 | 4 | | | | | AN960JD416L | WASHER |
| 12 | 6 | 6 | | | | MS21042L4 | NUT |
| 24 | 12 | | 12 | 4 | | CR3212-4-4 | RIVET |

WB 58450

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| BY: | <i>[Signature]</i> |
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| DATE: | 10.03.22 |
| CERT. NO.: | SH04-7 |
| ISSUE NO.: | 3 |

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| MFG. APPR. | N/A | DSI 9511 | SHEET 5 OF 6 |
| APPROVED | <i>10</i> | TITLE | SCALE |
| DE APPR. | <i>11</i> | NEW SHOULDER HARNESS KITS | NTS |
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TABLE 3

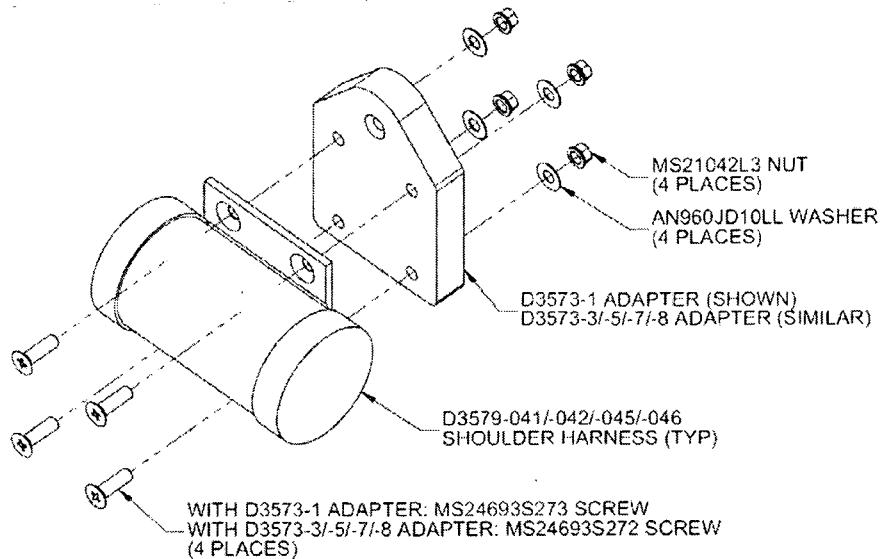
| QTY -337 | QTY -353 | Part Number | Description |
|-------------|-------------|--------------|---|
| X | | D214-702-337 | Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft |
| | X | D205-702-353 | Dart 4-Man 3 Point Aft Facing Shoulder Harness Kit, for UH-1 Aircraft |
| 1 | 2 | D412-702-311 | HARNESS ASSEMBLY (NEW) -- SEE TABLE 2 |
| 1 | 2 | D412-702-313 | HARNESS ASSEMBLY (NEW) -- SEE TABLE 2 |
| 1 | | D412-702-321 | HARNESS ASSEMBLY (NEW) -- SEE TABLE 2 |
| 1 | | D412-702-323 | HARNESS ASSEMBLY (NEW) -- SEE TABLE 2 |
| 1 | | D412-702-319 | HARNESS ASSEMBLY (NEW) |
| 1* | | D3925-041 | BRACKET |
| 1* | | D4088-043 | SHOULDER HARNESS ASSEMBLY (NEW) |
| 4* | | MS24694S50 | BOLT |
| 4* | | AN960JD10L | WASHER |
| 4* | | MS21042L3 | NUT |
| | 1 | D3572-043 | GUIDE ASSY |
| | 1 | D3572-044 | GUIDE ASSY |
| 1 | | D3920-041 | SEATBELT GUIDE ASSEMBLY |
| 2 | | D3920-5 | SEATBELT GUIDE |
| 1 | 6 | AN4-16A | BOLT |
| 1 | | AN4-21A | BOLT |
| 7 | | AN4-25A | BOLT |
| 18 | 12 | AN960JD416 | WASHER |
| 9 | 6 | MS21042L4 | NUT |

* denotes that part is included in assembly above

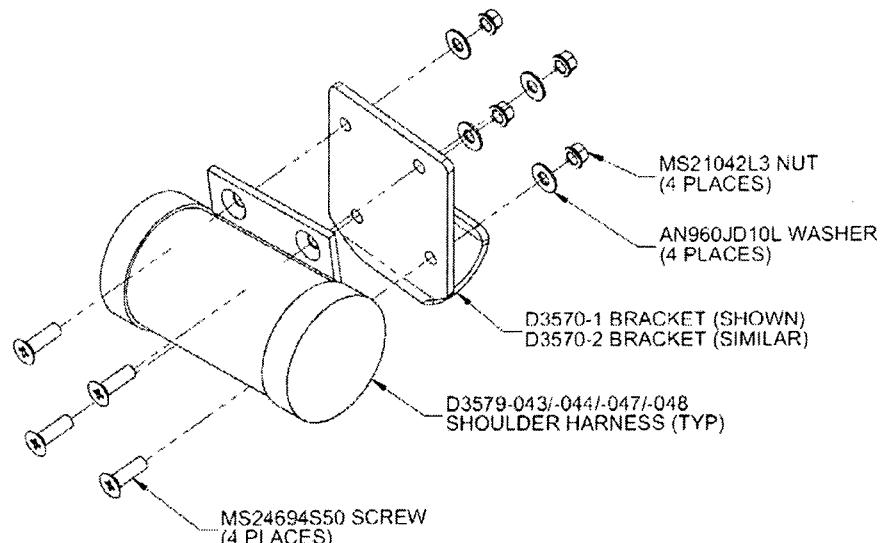
2010-03-18

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|-------------------------|--------------------|
| CANADA | |
| DEPARTMENT OF TRANSPORT | |
| AIRCRAFT CERTIFICATION | |
| BRANCH | |
| DAO # 01-O-01 | |
| APPROVED | |
| BY: | <i>[Signature]</i> |
| D. SHEPHERD (DE # 02) | |
| DATE: | 10.03.22 |
| CERT. NO.: | SH04-7 |
| ISSUE NO.: | 3 |

| | | |
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| DESIGN | <i>99</i> | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA |
| DRAWN | <i>99</i> | |
| CHECKED | <i>b</i> | DRAWING NO. DSI 9511 |
| MFG. APPR. | N/A | |
| APPROVED | <i>10</i> | REV. A SHEET 6 OF 6 |
| DE APPR. | <i>10</i> | |
| DATE | 10.03.18 | TITLE SCALE NEW SHOULDER HARNESS KITS NTS |
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DETAIL 'K' D412-702-101A/-103A/-105A/-107A/-109A/-115A/-117A AND
D412-702-101B/-103B/-105B/-107B/-109B/-115B/-117B HARNESS ASSEMBLIES
(BELTS, K6.2 CLIP AND D3569-1/-2/-3 DECAL NOT SHOWN)



W
58452

DETAIL 'L' D412-702-111A/-111B/-113A/-113B HARNESS ASSEMBLIES
(BELTS AND D3569-1/-2/-3 DECALS NOT SHOWN)

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